Express Mail No.: EL897856824US
Title: COMPOSITIONS AND METHODS FOR WTI SPECIFIC PROPORTIONS: All Propositions: All Propositions and Proposition Propo

HU: MGSDVRDLNALLPAVPSLGGGGGCALPVSGAAQWAPVLDFAPPGASAYGSL MO: MGSDVRDLNALLPAVSSLGGGGGCGLPVSGAAOWAPVLDFAPPGASAYGSL

HU:GGPAPPPAPPPPPPPSFIXQEPSWGGAEPHEEQCLSAFTVHFSGQFTGTAG MO:GGPAPPPAPPPPPPPPPSFIXQEPSWGGAEPHEEQCLSAFTLHFSGQFTGTAG

HU: ACRYGPFGPPPSQASSGQARMFPNAPYLPSCLESQPAIRNQGYSTVTFDGTPS MO: ACRYGPFGPPPSQASSGQARMFPNAPYLPSCLESQPTIRNQGYSTVTFDGAPS

HU: YGHTPSHHAAQFPNHSFKHEDPMGQQGSLGEQQYSVPPPVYGCHTPTDSCTG
MO: YGHTPSHHAAQFPNHSFKHEDPMGQQGSLGEQQYSVPPPVYGCHTPTDSCTG

HU:SQALLLRTPYSSDNLYQMTSQLECMTWNQMNLGATLKGVAAGSSSSVKWTE MO:SQALLLRTPYSSDNLYQMTSQLECMTWNQMNLGATLKGMAAGSSSSVKWTE

HU:GQSNHSTGYESDNHTTPILCGAQYRIHTHGVFRGIQDVRRVPGVAPTLVRSAS MO:GQSNHGIGYESDNHTAPILCGAQYRIHTHGVFRGIODVRRVSGVAPTLVRSAS

HU: ETSEKRPFMCAYPGCNKRYFKLSELQMHSRKHTGEKPYQCDFKDCERRFSR MO: ETSEKRPFMCAYPGCNKRYFKLSHLQMHSRKHTGEKPYQCDFKDCERRFSR

HU:SDQLKRHQRRHTGVKPFQCKTCQRKFSRSDHLKTHTRTHTGKTSEKPFSCR MO:SDQLKRHQRRHTGVKPFQCKTCQRKFSRSDHLKTHTRTHTGKTSEKPFSCR

HU: WPSCQKXFARSDELVRHENIMHQRNMTKLQLAL MO: WHSCQKXFARSDELVRHENIMHQRNMTKLHVAL Express Mail No.: EL897856824US
Title: COMPOSITIONS AND METHODS FOR WT1 SPECIFIC IMMUNOTHERAPY
Inventors: Alexa Gaiger et al. Serial No. Not yet assigned Doc : 210121.465C5



FIG. 2

Express Mail No.: EL897856824US
Title: COMPOSITIONS AND METHODS FOR WT1 SPECIFIC IMMUNOTHERAPY
Inventors: Alexa Gaiger et al. Serial No. Not yet assigned Dock 210121.465C5

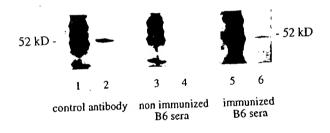


FIG. 3

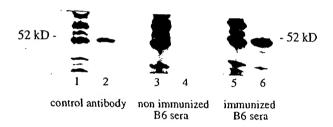
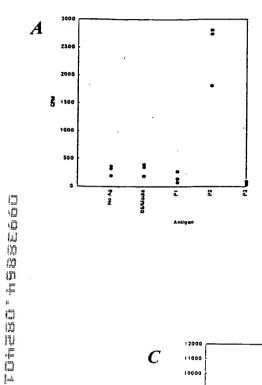
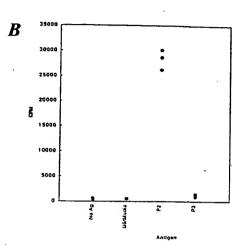


FIG. 4





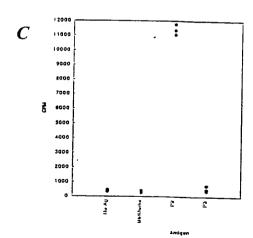


FIG. 5A-5C

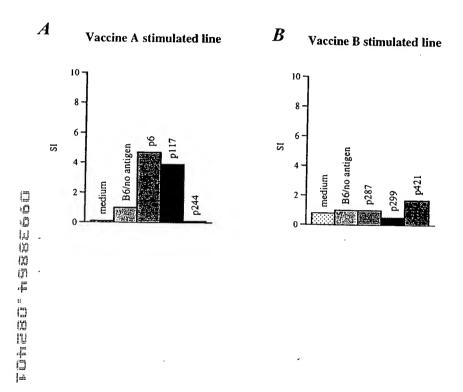
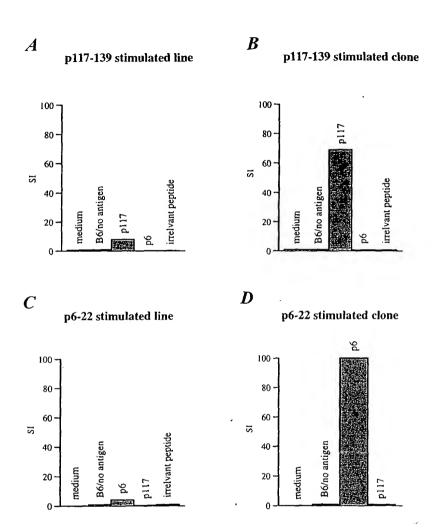


FIG. 6A and 6B



DODUNGEL CEPTOL

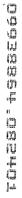
FIG. 7A-7D

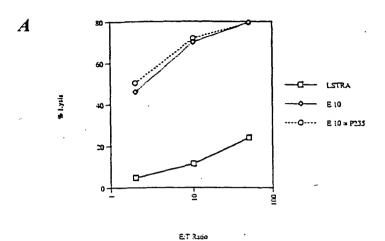
## Express Mail No.: EL897856824US Title: COMPOSITIONS AND METHODS FOR WT1 SPECIFIC IMMUNOTHERAPY Inventors: Alexa Baiger et al. Serial No. Not yet assigned Doct 210121.465C5

5 MGSDVRD					30									
AA	AAAAA	AAAAA	AAAA.		AAA	AA		. AAA	AAAAA	AAAA.				
80			-		105 1									
PSWGGAE														
155	160 1	165 1	.70 1	75	180 1	.85	190 1	.95	200 ;	205 2	210 2	215 2	20	225
TVTFDGT			_									-		
		RR	RR											
230 LYOMTSO AAAAAAA DDDDDDD.	A	INGMNL	GATLK AAA RRRRR	GVAAC . AAA .RRRRI DDDDD	53535V  R	KWTEG	GQSNHS	TGYE	SDNHT	PILCO	GAQYRI	HTHGV AAAA	FRGI( AAAA/ RR	QDV AAA
305 RRVPGVA AAAAARRR	AAAAAA RR DDDDDD	ASETS AAAAA 	EKRPE	MCAY	PGCNKR	YFKL: RRR.	SHLQMH	SRKH	rgekey	(QCDF)	DCERF	RESRSE AA.AAA	QLKRI AAAA	HQR AA.
380 RHTGVKP		QRKFS AAAA.	RSDHL AAAA.	KTHTF .AA	RTHTGK AA	TSEK:	PFSCRW	PSCQI AA/	KFARS AA RRRR.	DELVR AAAAA . RRRR	AA	QRNMT AAA	KLQL	λL 

## Express Mail No.: EL897856824US Title: COMPOSITIONS AND METHODS FOR WT1 SPECIFIC IMMUNOTHERAPY Inventors: Alex Gaiger et al. Serial No. Not yet assigned Documents: 210121.465C5

	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75
						PVSGAA									
						RRF	R				<i></i> .				
•••	• • • •	• • • • •		• • • •									•		
	80	85	90	95		105 STAGAC									
						AA									
						RRRR									
						<i>.</i> 									
						180 KHEDPM									225 20N
						. <i></i>									
_	30			2.5	250	255	262		270	226	200	206	200	205	300
						AGSSSS									
						₹ ₹3									
						KK 200000									
												c	ldddd	<i>.</i>	
30	05 :	310	315	320	325	330	335	340	345	350	355	360	365	370	375
						SGCNK									
DI	ומססס	DOOD	D												
• • •	• • • •		- • • • •		· · · · ·						• • • • •				
38	80 :	385	390	395	400	405	410	413	420	425	430	435	440	445	450
						RIHTG									
						A									
															,





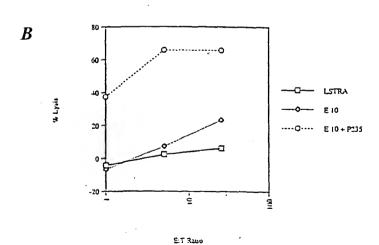
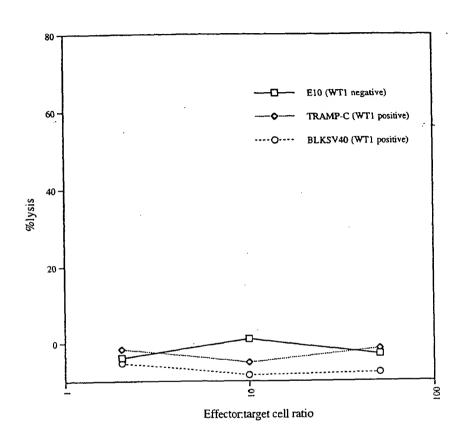


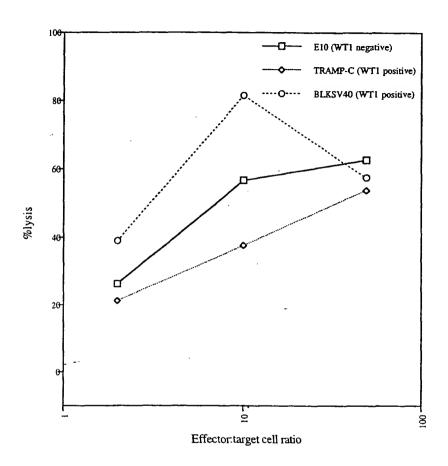
FIG. 9A and 9B

.-



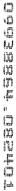
DOGUDDAR DENIED

FIG. 10A



DOODERL DEPLO

FIG. 10B



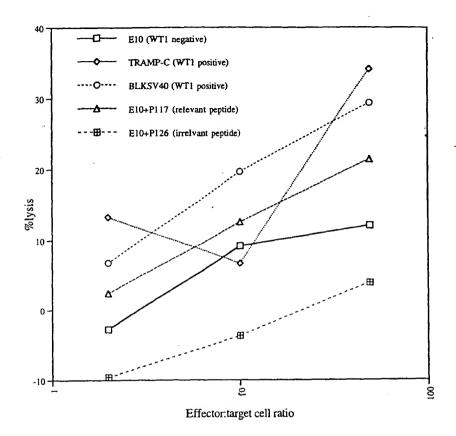
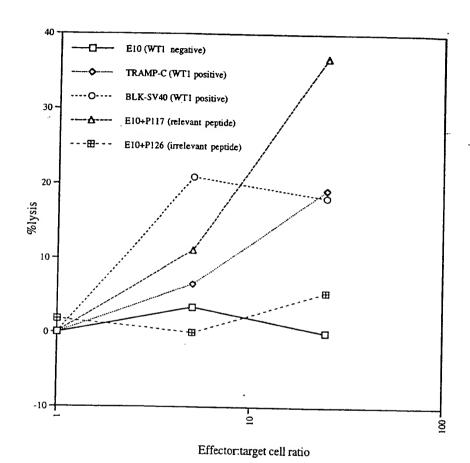


FIG. 10C



COLEGE PERSON

FIG. 10D

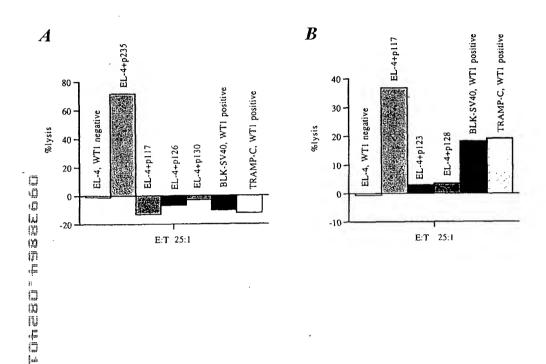


FIG. 11A and 11B

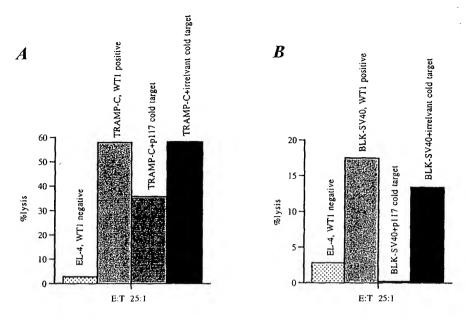
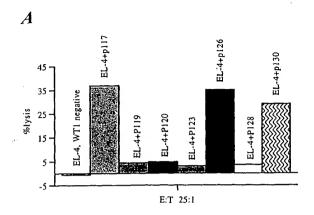
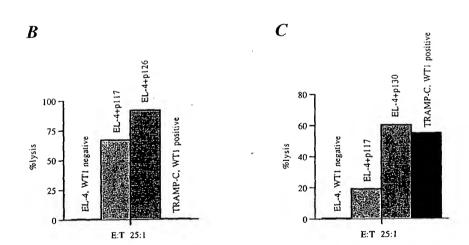


FIG. 12A and 12B

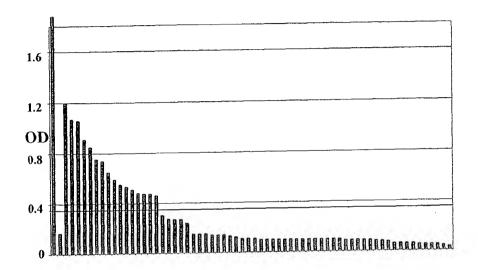
TOPESO, TESTOOR





LOPERT PERCEC

FIG. 13A-13C



F19. 14



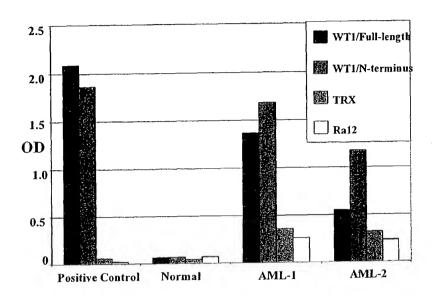


Fig. 15

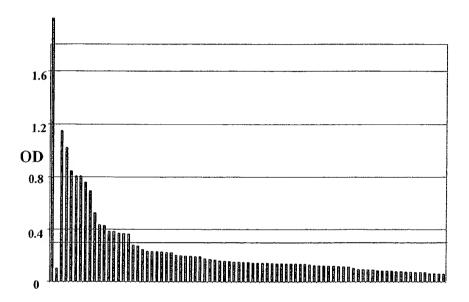


Fig. 16

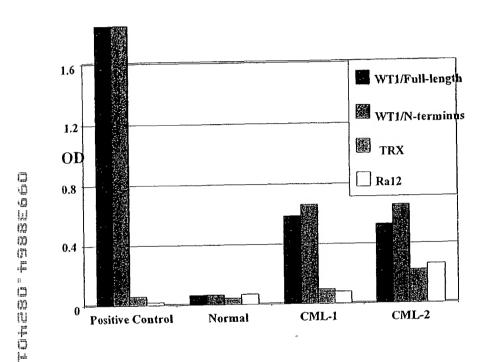


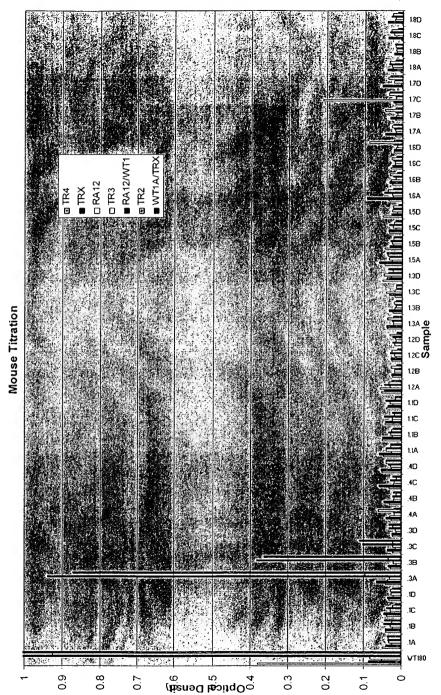
Fig. 17

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Title: COMPOSITIONS AND METHODS FOR WTI SPECIFIC IMMUNOTHERAPY
Inventors: Alexa Gaiger et al. Serial No. Not yet assigned Doct 210121.465C5

M <u>olecular Weight</u> 85kDa 60kDa 50kDa	
WT1 Amino Acid Position aa 1-449 aa 1-249 aa 267-449	
Recombinant Protein Ra12-WT1 full length fusion protein TRX-WT1 N-terminus fusion protein WT1 C-terminus protein	•
Name WT1/full-length WT1/N-terminus WT1/C-terminus	

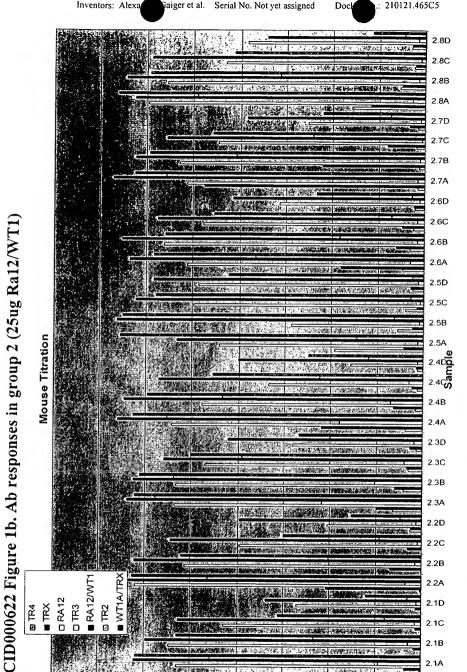
8 . 6 .

CID000622 Figure 1a Ab responses in group 0 and 1 (controls) DOOWERS, Lasted



Control groups. A: 1,500 Dilution, B: 1:2000, C: 1: 8000, D: 1:16000

FIG. 19 A



Express Mail No.: EL897856824US
Title: COMPOSITIONS AND METHODS FOR WT1 SPECIFIC IMMUNOTHERAPY

25ug Ra12/WT1+MPL-SE, A: 1;500 Dilution, B: 1:2000, C: 1: 8000, D: 1:16000

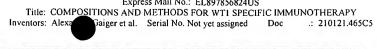
WT180

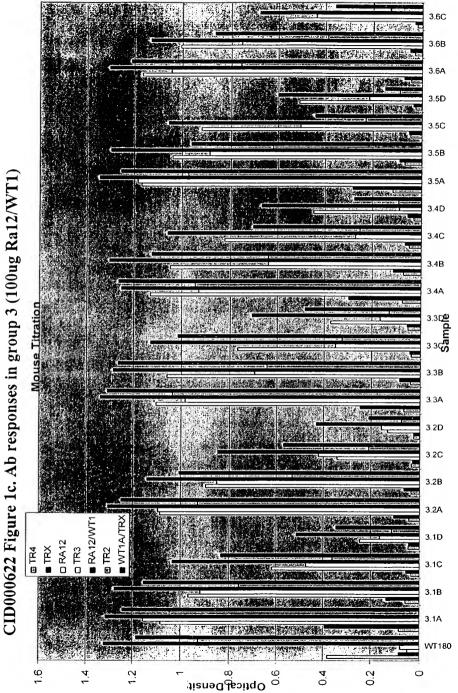
0

0.2

4.0

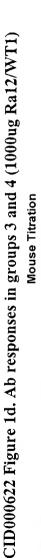
FIG. 1973

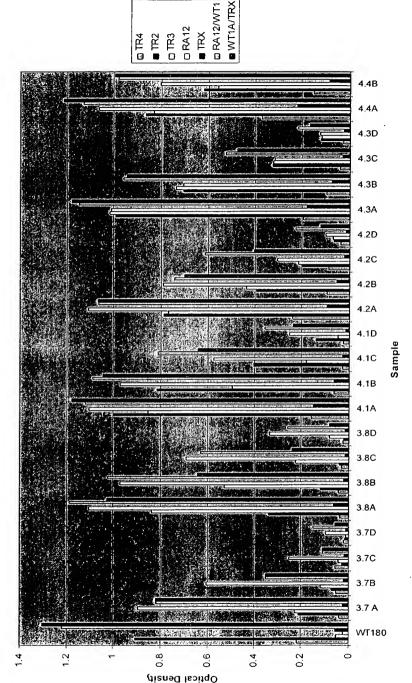




WT1. Dose Titration. Ab responses to WT1. 100ug Ra12-WT1+MPL-SE. A: 1;500 Dilution, B: 1:2000, C: 1: 8000, D: 1:16000

DIG. 190

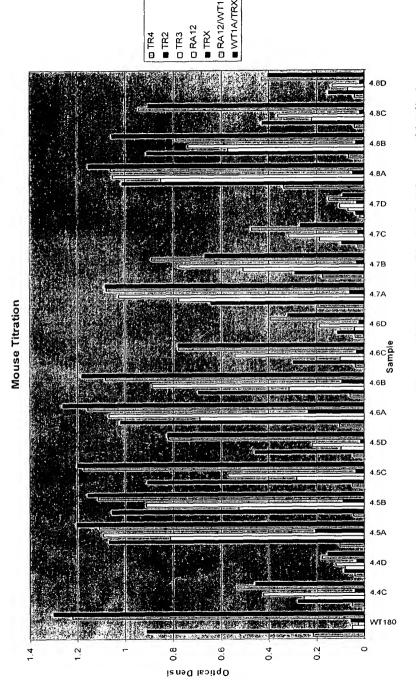




WT1. Dose Titration. Ab responses to WT1. 1000ug Ra12-WT1+MPL-SE. A: 1;500 Dilution, B: 1:2000, C: 1: 8000, D: 1:16000

FIG. 19D

Figure 1e. Ab responses in group 4 (1000ug Ra12/WT1)

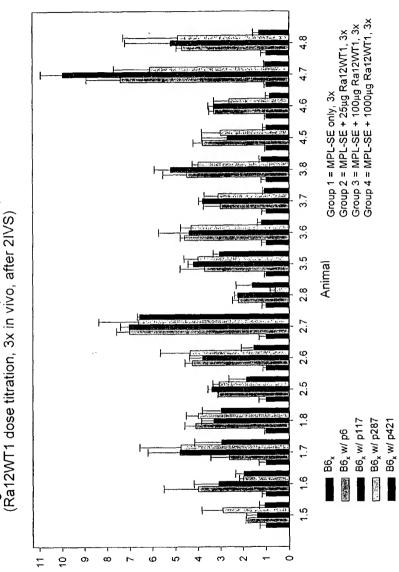


WT1. Dose Titration. Ab responses to WT1. 1000ug Ra12-WT1+MPL-SE. A: 1;500 Dilution, B: 1:2000, C: 1: 8000, D: 1:16000

FIG. 19 E

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Figure 2a. Proliferative T-cell responses in WT1 protein immunized mice. (Ra12WT1 dose titration, 3x in vivo, after 2IVS)



Stimulation Index

FIG. 20 A

DOCKER LERET

Group 2 = MPL-SE + 25μg Ra12WT1 Group 3 = MPL-SE + 100μg Ra12WT1 Group 4 = MPL-SE + 1000μg Ra12WT1 Figure 2b. Proliferative T-cell responses in WT1 protein immunized mice (Ra12WT1 dose titration, 6x in vivo, after 2IVS) **4**. Group 1 = MPL-SE only 4. 3.3 Animal 3.1 2.4 2.2 B6<sub>x</sub> w/ p117 B6<sub>x</sub> w/ p287 B6, w/ p6 2.1 3 က ~ 0

Stimulation Index

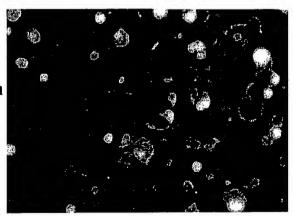
FIG. 20E

## Figure 1. WT1 expression in human DC following adeno WT1 and Vaccinia WT1 infection

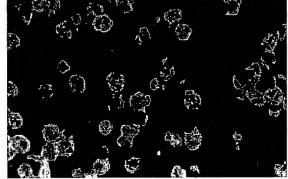
Control (uninfected human DC



Adeno WT1
infected human
DC



Vaccinia WT1 infected human DC

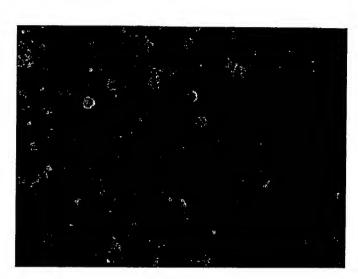


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Inventors: Alex: Paiger et al. Serial No. Not yet assigned Doc Doc Doc 2010.: 210121.465C5

FIG. 22

Figure 2. WT1 can be expressed reproducible in human DC following adeno WT1 infection and is not induced by a control Adeno infection

Control (Adeno EGFP infected human DC)



Adeno WT1 infected human DC

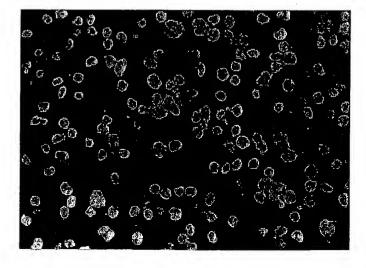


FIG. 23

